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of

Application Number	10/644.406
Filing Date	8/19/2003
First Named Inventor	NIEMEYER, GU
Art Unit	2125
Examiner Name	GARLAND
Attorney Docket Number	017516-002130

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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>o</sup>
		Country Code <sup>1</sup> Number <sup>2</sup> Kind Code <sup>3</sup> (if known)				
SRK		WO 97/43943	11/27/1997	MADHANI		
SRB		WO 97/43942	11/27/1997	MADHANI		
SRK		WO 97/29690	8/27/1997	WANG		

Handl

8/1/25

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10,644,408
Filing Date	9/19/2003
First Named Inventor	NIEMEYER, GUNTER D
Art Unit	2121
Examiner Name	UNASSIGNED
Attorney Docket Number	017516-002130US

Sheet

of

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
SLB		Komada et al. "Bilateral robot hand based on estimated force feedback" Proceedings IECON '87, Cambridge, MA, November 3-6, 1987, pp. 602-607.	
SLB		Baumann, R., Thesis No. 1734 entitled "Haptic interface for virtual reality based laparoscopic surgery training environment" for Master of Science in Computer and Systems Engineering, Rensselaer Polytechnic Institute, USA (1997) pp. 98-103.	
SLC		Lazarevic, "Feasibility of a Stewart Platform with Fixed Actuators as a Platform for CABG Surgery Device" Master's Thesis, Columbia University, Department of Bioengineering, pp. 1-45.	
SLC		Madhani, Akhil Jiten, Dissertation entitled Design of Teleoperated Surgical Instruments for Minimally Invasive Surgery, Mass. Institute of Tech. (Feb. 1998)	
SLB		Neisus et al., "Robotic manipulator for endoscopic handling of surgical effectors and cameras," 1st Intl. Symposium on Medical Robotics and Computer Assisted Surgery, Workshop (Part I & II)-Session VI, Pittsburgh, Pennsylvania (Sep. 22-24, 1994) vol. 2, pp. 169-175.	
SLB		Thring, "Robots and telechairs: Manipulators with memory; remote manipulators; machine limbs for the handicapped" (1993) M.W. Thring/Ellis Horwood Ltd. pp. 9-11, 122-131, 194-195, 235-257, 274-279.	

Examiner  
Signature*Harold*Date  
Considered

8/1/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449A/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/644,406		
		Filing Date	August 19, 2003		
		First Named Inventor	NIEMEYER, GUNTER D.		
		Art Unit	2125		
		Examiner Name	Garland		
Sheet	1	of	2	Attorney Docket Number	017516-002130US

U.S. PATENT DOCUMENTS+						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number Kind Code <sup>2</sup> (if known)				
snb	1	5,053,976	10-01-1991	Nose et al.		
snb	2	5,631,973	05-20-1997	Green		
snb	3	5,808,665	09-15-1998	Green		

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
snb	4	WO	97/29690		08-21-1997	Computer Motion, Inc.		<input type="checkbox"/>
snb	5	WO	97/43942		11-27-1997	Intuitive Surgical, Inc.		<input type="checkbox"/>
SLU	6	WO	97/43943		11-27-1997	Intuitive Surgical, Inc.		<input type="checkbox"/>
								<input type="checkbox"/>

Examiner Signature	<i>Garland</i>	Date Considered	8/1/05
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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/644,406		
		Filing Date	August 19, 2003		
		First Named Inventor	NIEMEYER, GUNTER D.		
		Art Unit	2125		
		Examiner Name	Garland		
Sheet	2	of	2	Attorney Docket Number	017516-002130US

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Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
SNL	7	BAUMANN, Thesis No. 1734 entitled "Haptic interface for virtual reality based laparoscopic surgery training environment" for Master of Science in Computer and Systems Engineering, Rensselaer Polytechnic Institute, USA (1997) pp. 98-103.	
SNL	8	KOMADA et al. "Bilateral robot hand based on estimated force feedback" Proceedings IECON '87, Cambridge, MA, November 3-6, 1987, pp. 602-607.	
SNL	9	LAZAREVIC, "Feasibility of a Stewart Platform with Fixed Actuators as a Platform for CABG Surgery Device" Master's Thesis, Columbia University, Department of Bioengineering, pp. 1-45	
SNL	10	MADHANI, Dissertation entitled Design of Teleoperated Surgical Instruments for Minimally Invasive Surgery, Mass. Institute of Tech. (©Feb. 1998)	
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SNL	12	THRING, "Robots and telechairs: Manipulators with memory; remote manipulators; machine limbs for the handicapped" (1993) M.W. Thring/Ellis Horwood Ltd. pp. 9-11, 122-131, 194-195, 235-257, 274-279	

Examiner Signature	<i>SNL</i>	Date Considered	8/1/05
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